

SEQUENCE LISTING

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 Fry, Kirk
 Woodward, Robert
 Ly, Ngoc

<120> METHODS AND COMPOSITIONS FOR DIAGNOSING AND MONITORING
 AUTO IMMUNE AND CHRONIC INFLAMMATORY DISEASES

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<151> 2002-04-24

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 <213> Homo sapiens

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 <213> Homo sapiens

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 <211> 428
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aacacccta agatttccca gtgggtccgag cagaatcaga aaatacagct acttctgcct 2580
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<210> 32
<211> 770
<212> DNA
<213> Homo sapiens

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tctaggtgat ctgtgaaaat ggttcgctat tcacttgacc cggagaaccc cacgaaatca 180
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gccatcaagg gtatgcatat acgaaaagcc acgaagtatc tgaaagatgt cactttacag 300
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cggattaacc catacatgag ctctccctgc cacattgaga tgatccttac ggaaaaggaa 600
cagattgttc ctaaaccaga agaggagggt gcccagaaga aaaagatatc ccagaagaaa 660
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aaagaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 770

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<210> 33
<211> 539
<212> DNA
<213> Homo sapiens

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<223> n is a, c, g, t or u

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<220>
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<223> n is a, c, g, t or u

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<220>
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 <223> n is a, c, g, t or u

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 atggccttaga aatcttttatt cttagggcag tcagtagtat tctaaagctt tctgacaaga 180
 taaaggaagt caccaaaatt tcttttttta aattgtatct aatcctcaac aacaaaccaa 240
 aacagaacaa ttaaacagcc aaataaaacc tcagggacaa catttttggt gtatttgagc 300
 cctcccagca agtttcacct tgggtttgta ttttaaagt tttacaagaa ttgtccatgt 360
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 atacacaaca tttatttcaa actaattggg agggatgaga gtggcttaaa aacttcccac 480
 cctacttttc caagagtgcc agttggatc tgaatctgna aagcccgccc nctgggtctt 539

<210> 34
 <211> 2305
 <212> DNA
 <213> Homo sapiens

<400> 34
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 gccatttggtg ggaaatattt cttcgtttca gattgttgat gttattgttg ggaaagacga 180
 aaaaggcaga aagatcccag aatatctgat ccattttaat gggtggaaca gaagctggga 240
 tagatgggca gcagaagatc atgtgcttcg tgataccgat gaaaatcgta gattacagcg 300
 taaattggca agaaaagctg tagctcgctt gaggagcaca ggaagaaaga agaagcgctg 360
 caggttgcct ggtgtggact ctgtcttaaa aggcctcccc actgaagaaa aagatgaaaa 420
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<210> 35
<211> 1723
<212> DNA
<213> Homo sapiens

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<400> 35
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<210> 36

<211> 1280

<212> DNA

<213> Homo sapiens

<400> 36

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<210> 37
<211> 1653
<212> DNA
<213> Homo sapiens

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ggagactcag gagttttgag agcaaaatga caacaccag aaattcagta aatgggactt 180
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tgggggctgt ccagattatg aatgggctct tccacattgc cctgggggggt cttctgatga 360

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tcccagcagg gatctatgca cccatctgtg tgactgtgtg gtaccctctc tggggaggca 420
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 tgggtcaaagg aaaaatgata atgaattcat tgagcctctt tgctgccatt tctggaatga 540
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<210> 38

<211> 1937

<212> DNA

<213> Homo sapiens

<400> 38

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<210> 39
<211> 2647
<212> DNA

<213> Homo sapiens

<400> 39

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<211> 2489

<212> DNA

<213> Homo sapiens

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 <213> Homo sapiens

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<211> 1901

<212> DNA

<213> Homo sapiens

<400> 45

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<211> 921

<212> DNA

<213> Homo sapiens

<400> 46

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<211> 2828

<212> DNA

<213> Homo sapiens

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<211> 574

<212> DNA

<213> Homo sapiens

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 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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 <211> 925
 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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<211> 1245
<212> DNA
<213> Homo sapiens

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<210> 55
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<212> DNA
<213> Homo sapiens

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<210> 56
<211> 3148

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<212> DNA

<213> Homo sapiens

<400> 56

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 <211> 1404
 <212> DNA
 <213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<210> 59
 <211> 1934
 <212> DNA
 <213> Homo sapiens

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1934

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<211> 2220
<212> DNA
<213> Homo sapiens

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<210> 61

<211> 1972

<212> DNA

<213> Homo sapiens

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 <211> 1321
 <212> DNA
 <213> Homo sapiens

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<210> 63

<211> 2972

<212> DNA

<213> Homo sapiens

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 <211> 3189
 <212> DNA
 <213> Homo sapiens

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<211> 2775

<212> DNA

<213> Homo sapiens

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<210> 71
<211> 282
<212> DNA
<213> Homo sapiens

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ttaagctgga atggtttttt cccaaacca aaaattgggt ttaccaaaaa ggggaatagg 180
agttgttcag tattttcaaa ttacaaatca atttaaaaaa acaaaccctt tgcttacatt 240
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<210> 72
 <211> 2870
 <212> DNA
 <213> Homo sapiens

<400> 72
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<210> 73
 <211> 1329
 <212> DNA
 <213> Homo sapiens

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<400> 73
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cagcagatct gagctgagaa tcctcctggg gggcaaaaca ggaactggca aaagtgtgc 180
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<210> 74
<211> 1983
<212> DNA
<213> Homo sapiens

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 aaa 1983

<210> 75
 <211> 2736
 <212> DNA
 <213> Homo sapiens

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gagttattcc tgatgaagct aaagctttgt ctctgttggc accagctaatt gcagtggcag	480
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<210> 76
 <211> 1839
 <212> DNA
 <213> Homo sapiens

<400> 76
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gaatgatggt acagttaggt gagattttct gttatggtac ccaaactcac catttggtcc    1800
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<210> 77
 <211> 1348
 <212> DNA
 <213> Homo sapiens

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<400> 77
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cttgtttgaa tgctgcctcc attatatagg tccttccagg aactcaaaca ctgtaagtga    180
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cgactcagca tacattttcc cacatacatt ttacattgt acottaggac tcagtcactc    540
ccacttaaat tgatgacaca agcagctaata aaccatttct ggggtttctgc ctaaccccct    600
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<210> 78
 <211> 2156
 <212> DNA
 <213> Homo sapiens

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<400> 78
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gttacaagct ctctcttgag ccgctgcctt gttaccagct ggagcttgac gcagctgtgg     180
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<210> 79

<211> 2690

<212> DNA

<213> Homo sapiens

<400> 79

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<211> 1874
<212> DNA
<213> Homo sapiens

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<212> DNA
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<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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<211> 521

<212> DNA
<213> Homo sapiens

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<211> 1766
<212> DNA
<213> Homo sapiens

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<210> 123

<211> 1732

<212> DNA

<213> Homo sapiens

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 <213> Homo sapiens

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2543

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<213> Homo sapiens

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<211> 1466
<212> DNA
<213> Homo sapiens

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aacaaaacct agtaatacat acaaaagctt tcatgggttc tagaaccttc ttaactgctg      420
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 <211> 3875
 <212> DNA
 <213> Homo sapiens

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cctagaaaaa cgggtagtaa actgtggata gtcaggaaaa caccagcaa gggacacagc      180

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 <211> 1865
 <212> DNA
 <213> Homo sapiens

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 <211> 1198
 <212> DNA
 <213> Homo sapiens

<400> 139
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 ggaatccct actctactgt gtgtagcctt actgttcttc gctccagatg gcgtgttagc 180
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<210> 140
<211> 453
<212> DNA
<213> Homo sapiens

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<220>
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<222> (182)..(182)
<223> n is a, c, g, t or u

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<400> 140
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atgagtaaac tgaggcacag taagactaag ttaactgccc aaactcttcc acctgggttag 180
tngggaaaat aacattttcca accctgatct ttctgggtcc tgaaccagga tagctggact 240
gtacttcccc atttttgaaa aagctgctaa aaacttgggt acaaacttta agtgacacgt 300
ttctccattt atgtgggtgt tatagcaacg gtacaactct ctatttataa attaaacctt 360
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<210> 141
<211> 222
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (159)..(159)
<223> n is a, c, g, t or u

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<400> 141
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gttcaccatc acaactgcat taccaaaagg ggatttttnc aaacgcggag ttgacaaaaa 180
taatatctga ggatgattgc ttttccttgc tgccagctga tc 222

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<210> 142
<211> 1851
<212> DNA

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<213> Homo sapiens

<400> 142

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ccatgtccac caggtccgtg tctctgtcct cctaccgcag gatgttcggc ggcccgggca      180
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tgggcagcgc gctgcgcccc agcaccagcc gcagcctcta cgctcgtcc ccgggcgggc      300
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tgctagaata ctttttaaaa ggtattttga ataccattaa aactgctttt ttttttccag 1800
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<210> 143
 <211> 2864
 <212> DNA
 <213> Homo sapiens

<400> 143
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 aaatgaccca gaatacatta gggagaggaa catgtctcct gatctacgac aagacttcaa 180
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 tctcagtctt ggcattgtca cacctatcaa tgaccttcct ggtgcagata catcctcata 420
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<210> 144
 <211> 360
 <212> DNA
 <213> Homo sapiens

<400> 144
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attttcccca aataactttg cctccttggg cacaaggccc aattcgctca catttactta 300
aatgacagtc ccttgggaat aacacccaaa gttgatccag gggggataag gatttttctt 360

<210> 145
<211> 876
<212> DNA
<213> Homo sapiens

<400> 145
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<210> 146
<211> 1875
<212> DNA
<213> Homo sapiens

<400> 146
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<210> 147
 <211> 1161
 <212> DNA
 <213> Homo sapiens

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<400> 147
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2354

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<211> 2304

<212> DNA

<213> Homo sapiens

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 <212> DNA
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<211> 4276

<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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 <213> Homo sapiens

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 <213> Homo sapiens

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<400> 198

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 <213> Homo sapiens

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<210> 201
 <211> 1897
 <212> DNA
 <213> Homo sapiens

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<211> 2697
<212> DNA
<213> Homo sapiens

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<210> 203
<211> 353
<212> DNA
<213> Homo sapiens

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<211> 487
<212> DNA
<213> Homo sapiens

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<223> n is a, c, g, t or u

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<210> 205
 <211> 3117
 <212> DNA
 <213> Homo sapiens

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<211> 4064

<212> DNA

<213> Homo sapiens

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<212> DNA
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<210> 234

<211> 990

<212> DNA

<213> Homo sapiens

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tgagcacttc cttccttcct agcaccacca ggctcttgta ttatccctgt ccctgccctg 180
gaatcgactc ctctccaga gagccctggg ttctttgtta gaggatggta tatagaatcc 240
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tttggtttca acatttgtga ttgagagact atggacctgt aataagtcca agaacagcag 600
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<210> 235
<211> 2088
<212> DNA
<213> Homo sapiens

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<223> n is a, c, g, t or u

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<220>
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<223> n is a, c, g, t or u

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<223> n is a, c, g, t or u

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<223> n is a, c, g, t or u

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<220>

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<222> (1984)..(1992)

<223> n is a, c, g, t or u

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<210> 236
<211> 111
<212> DNA
<213> Homo sapiens

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<210> 237
<211> 841
<212> DNA
<213> Homo sapiens

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<400> 237
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<210> 238
 <211> 1326
 <212> DNA
 <213> Homo sapiens

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 <211> 2439
 <212> DNA
 <213> Homo sapiens

<400> 239	
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cagctcggcc gagtctcgt cagcagaatc aggtcagggt tctgaggaaag aagaggagga	960
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<210> 240
<211> 675
<212> DNA
<213> Homo sapiens

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<210> 241

<211> 4670

<212> DNA

<213> Homo sapiens

<400> 241

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<210> 242
 <211> 2082
 <212> DNA
 <213> Homo sapiens

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<210> 243
<211> 688
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (678)..(678)
<223> n is a, c, g, t or u

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<400> 243
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cagtgttcat agcttctctg aacttgacag agcctgagtt tgcctcttag tgggagaatg 120
agagagagct gtagtggtcac ctgacattcc ccaaacccttg tgaagcacgt tggcctaagt 180
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ctggtagcat ttatctgact tggaaagttg gagaagaggc attcctactg gagaaaaatg 600
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<210> 244
<211> 2309
<212> DNA
<213> Homo sapiens

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<400> 244
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<210> 245
<211> 171
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (72)..(72)
<223> n is a, c, g, t or u

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<220>
<221> misc_feature
<222> (137)..(137)
<223> n is a, c, g, t or u

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<400> 245
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tttgtaaaag gngggaaatc agctgcctca ggaggttctt aacatatagg aatgtaatta 120
tcagattcaa agctgancag tagtgcggtg ccctgtaacc taagtcttgg c 171

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<210> 246
<211> 302
<212> DNA
<213> Homo sapiens

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<400> 246
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tcaggccccg ccgggccccga aaggcgacgg tttccggtta gtggaatcac ggtcccagtc 180
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ca 302

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<210> 247
<211> 1991

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<212> DNA

<213> Homo sapiens

<400> 247

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<212> DNA
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<212> DNA
<213> Homo sapiens

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<210> 258
 <211> 2932
 <212> DNA
 <213> Homo sapiens

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 <212> DNA
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<210> 261
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 <212> DNA

<213> Homo sapiens

<220>

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<223> n is a, c, g, t or u

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<221> misc_feature

<222> (579)..(579)

<223> n is a, c, g, t or u

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<211> 2451

<212> DNA

<213> Homo sapiens

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 <223> n is a, c, g, t or u

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<213> Homo sapiens

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<223> n is a, c, g, t or u

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<211> 2140

<212> DNA

<213> Homo sapiens

<400> 267

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 <212> DNA
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<211> 3001

<212> DNA

<213> Homo sapiens

<400> 269

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<210> 270

<211> 2977

<212> DNA

<213> Homo sapiens

<400> 270

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<210> 271
<211> 1749
<212> DNA
<213> Homo sapiens

<400> 271
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<210> 272
<211> 2885
<212> DNA
<213> Homo sapiens

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<400> 272
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aaaaa 2885

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<210> 273
<211> 438
<212> DNA
<213> Homo sapiens

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<220>
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<223> n is a, c, g, t or u

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aagagggggt ggggaagatt acattttttt tccttttgaa actgaatgcc ataatctcga 180
tcaaacccgat ccagaatacc gaagatcggc acaggacaga aaagcgagtc gcaggaggaa 240
gggagatgca gccgcacagg ggatgattac cctcctagga ccgcgggtggc taagtcattg 300

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caggaacggg gctgtgttct ctgctgggac aaaacaggag ctcatctctt tggggtcaca 360
 gttctatttt gtttgtgagt ttgtattatt attattatta ttattattat attttanntc 420
 tttggtctgt gagcaact 438

<210> 274
 <211> 484
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (457)..(457)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (483)..(483)
 <223> n is a, c, g, t or u

<400> 274
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 gaacggagca gtgatgtggt tttcaaggca gcagtggcag aggtcccatg taatggtgca 180
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 agng 484

<210> 275
 <211> 931
 <212> DNA
 <213> Homo sapiens

<400> 275
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 gtacggcttc ggaggctagg ccgcgcgtcc agctttgcac gtttcgatcc caaaggccct 360

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ttttagggcc gaccacttgc tcatctgagg agttggacac ttgactgcgt aaagtgcaac 420
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cggactctga ataaagagca gaatgattgg c 931

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<210> 276
 <211> 405
 <212> DNA
 <213> Homo sapiens

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<400> 276
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tttaaccaca aatgaaatag atgacttctt agaaaaacat aaaagcagag ctgtctcaaa 360
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<210> 277
 <211> 368
 <212> DNA
 <213> Homo sapiens

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<400> 277
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368

<210> 278
<211> 239
<212> DNA
<213> Homo sapiens

<400> 278
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<210> 279
<211> 335
<212> DNA
<213> Homo sapiens

<400> 279
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aaagtccata tatttccttg tacattttta aagttgatat ctaaactctt catgtagtgt 240
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<210> 280
<211> 430
<212> DNA
<213> Homo sapiens

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<222> (374)..(374)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (417)..(417)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (425)..(425)
<223> n is a, c, g, t or u

<400> 280
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 gttcttccct ccattaaagt acaatctccc tggggagaga cacacaaagt acacatttag 360
 agaccagtta tttntttttc cagattcggt tcccggtgcc tttttcctag gttaagnagc 420
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<210> 281
 <211> 972
 <212> DNA
 <213> Homo sapiens

<400> 281
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 <211> 3624
 <212> DNA
 <213> Homo sapiens

<400> 282
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 <212> DNA
 <213> Homo sapiens

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 <211> 406
 <212> DNA
 <213> Homo sapiens

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 <222> (433)..(433)
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<211> 500
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<213> Homo sapiens

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<211> 364
<212> DNA
<213> Homo sapiens

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364

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 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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<210> 291

<211> 2038

<212> DNA

<213> Homo sapiens

<400> 291

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 <211> 1282
 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

<400> 293
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1372

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 <211> 690
 <212> DNA
 <213> Homo sapiens

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 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (653)..(653)
 <223> n is a, c, g, t or u

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<210> 295
 <211> 2549
 <212> DNA
 <213> Homo sapiens

<400> 295
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<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<211> 521
<212> DNA
<213> Homo sapiens

<400> 328
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<211> 455
<212> DNA
<213> Homo sapiens

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 <212> DNA
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<210> 333

<211> 822

<212> DNA

<213> Homo sapiens

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822

<210> 334

<211> 2918

<212> DNA

<213> Homo sapiens

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<212> DNA
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gaggacgagg acgaggacgt ggccagcccc gacggcttgg gccggttgaa tgtagcgggc 1680
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<210> 336
<211> 1287
<212> DNA
<213> Homo sapiens

<400> 336
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gtccccggagg tcaccgggga tgcaccgtct gcatttcggc ccctgcggga caatggaggc 240
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<210> 337

<211> 539

<212> DNA

<213> Homo sapiens

<400> 337

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ttttgagatg gagtctcgct cttgtcgccc aggetggagt gcagtggcac gatctcagct 180
ccctgcaacc tccgcctccc gggttcatgt gattctcctg cctcagcctc cccagtagct 240
gggaatacag gcacccgcca ccatgcccgg ctaatttttg tagttttagt agagacgggg 300
tttcatcatg ttggacaggc tggctctgaa ctctgacct caggtgatcc atcagcctgg 360

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gcctcccaaa gtactgggat tacaggcatg agccaccaca cctggcccca ttttttattt 420
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<210> 338
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 <212> DNA
 <213> Homo sapiens

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<210> 339
 <211> 409
 <212> DNA
 <213> Homo sapiens

<400> 339
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 tgtagcacg tgcttctcga aacaccgcat cccccgggtc ccgccccgcc cggcgcgcg 180
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<210> 340
 <211> 552
 <212> DNA
 <213> Homo sapiens

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 <223> n is a, c, g, t or u

<400> 340

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cattttctaa aaaaacccaa aaattccctt acatcggcct aaacatttat taaagggggg    180
ggaaaaaacc tttttcaatt ttttaagcggg ccaaaaaaaaa accctttccc caacttttaa    240
aattttttta aaaaaaaagc caatttatat gggacattgg ggggtcccggg gcataaaaaa    300
acaggcattt tccccaacgg gccaaaaacc aacaaacaag gggccttttt ttgggggggaa    360
attaantttc aaaggcaaag gggttcaaag gggacccaag gggctgcccc cccaggaag    420
aaaaccccac aaaaataatg aagtttgag ggggccaccg ccgggtccca aaaaggggtc    480
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ctttaatata ga    552

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<210> 341

<211> 474

<212> DNA

<213> Homo sapiens

<400> 341

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ccactaatac acactttgaa aagtaccatc accatatata tatttgcttt aaaaaattat    180
gacaagcttc aggtaaaaat aattttttaa ggggtccattt ttcatttacg tacaatcagt    240
acatcttatt tacatatatg actggatctt tattctattt tcttcatata agatatttta    300
actggtaggt aactgctcta ttctgttttt atagaaagac taaacacctt atttacaggc    360
agttttgatg atgctagttt gtctccaaat tacgtactga atatagttaa aatcttaatg    420
aataacataa aaattaagat ccggtattaa cagactattt tatgggtcac actg    474

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<210> 342

<211> 2379

<212> DNA

<213> Homo sapiens

<400> 342

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cggcgggggca gccccgccca cctgccctcc tgcagcccag cgctgctact gctggtgctg    180
ggcggctgcc tgggggtctt cggggtggct gcgggaaccc ggaggcccaa cgtggtgctg    240
ctcctcacgg acgaccagga cgaagtgctc ggcggcatga caccactaaa gaaaacaaaa    300

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gctctcatcg gagagatggg gatgactttt tccagtgcct atgtgccaaag tgctctctgc	360
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gataagtaga gatacatttt ttatgatggt catcacagtg tggtaagggt gcaaattcaa 2340
aacatgtcac ccaagctctg ttcatgtttt tgtgaattc 2379

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<210> 343
<211> 558
<212> DNA
<213> Homo sapiens

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aggtacattc ttgccgcgca tccctgctgt gctttcccca cgtgaggagg ggaggaggagac 180
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ggttgaggag gatgtactat tgtcacacat tcatcaacta ttatctgctc ttttttccaa 300
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tgcattctta tacattctta acatactagc tgcggatgta atagctactt ctgttcgttt 480
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cgggtcgtat tattttga 558

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<210> 344
<211> 569
<212> DNA
<213> Homo sapiens

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<223> n is a, c, g, t or u

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<223> n is a, c, g, t or u

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<223> n is a, c, g, t or u

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<223> n is a, c, g, t or u

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<222> (136)..(138)

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<223> n is a, c, g, t or u

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<223> n is a, c, g, t or u

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<222> (177)..(177)

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<220>

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<222> (205)..(206)
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<223> n is a, c, g, t or u

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<223> n is a, c, g, t or u

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<223> n is a, c, g, t or u

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<222> (296)..(296)
<223> n is a, c, g, t or u

<220>
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<223> n is a, c, g, t or u

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<223> n is a, c, g, t or u

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 <223> n is a, c, g, t or u

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<210> 345
 <211> 1536
 <212> DNA
 <213> Homo sapiens

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 aacgaaccca tcctctatgg tcggagctac acttggctgt gctatgaagt gaaaataaag 180
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 aataatgacc ctttggtcct tcgacggcgc cagacctact tgtgctatga ggtggagcgc 720
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 aagaatcttc tctgtggctt ttacggccgc catgcggagc tgcgcttctt ggacctgggt 840
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taattgaaaa tttctcttat gttccaagtg tacaagagta agattatgct caatattccc 1440
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cattaagaat ctcccataat tgtttccaca aacact 1536

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<210> 346
 <211> 476
 <212> DNA
 <213> Homo sapiens

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<400> 346
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<212> DNA

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<211> 738

<212> DNA

<213> Homo sapiens

<400> 352

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<212> DNA
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<210> 367
<211> 290
<212> DNA
<213> Homo sapiens

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<223> n is a, c, g, t or u

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<210> 368

<211> 2161

<212> DNA

<213> Homo sapiens

<400> 368

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<211> 914

<212> DNA

<213> Homo sapiens

<400> 369

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<211> 5590

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 2750

<212> DNA

<213> Homo sapiens

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<211> 2047

<212> DNA

<213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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<211> 1079

<212> DNA

<213> Homo sapiens

<400> 376

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<211> 346

<212> DNA

<213> Homo sapiens

<400> 377

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<210> 378

<211> 967

<212> DNA

<213> Homo sapiens

<400> 378

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<210> 379
 <211> 299
 <212> DNA
 <213> Homo sapiens

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<400> 379
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<211> 2779

<212> DNA

<213> Homo sapiens

<400> 381

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<213> Homo sapiens

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 <213> Homo sapiens

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<211> 1963

<212> DNA

<213> Homo sapiens

<400> 385

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<210> 386

<211> 4866

<212> DNA

<213> Homo sapiens

<400> 386

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<211> 319
<212> DNA
<213> Homo sapiens

<400> 387
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actgggctec tccacccggg accttttgac ctccggctct ccagtggaag aggcggaggc 180
agaggcggtg gtggcagtg ctgggggtgtg gtggccgtgg ccgcgacggc tgctgctggc 240
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gtcgcaagga gctgcaaag 319

<210> 388
<211> 408
<212> DNA
<213> Homo sapiens

<400> 388
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gtcattcccc ccttttacgg gccaatcaa aaccttggtt tccgggggaa tgggacggaa 180
aattacattt ggacaacttt ttttccttt atccccaact ttggccaaaa agcaaaaaaa 240
ggcctttttt ttataaaaaa agaataaatt cccccagggg tttttaaaaa aatttcccc 300
ccccggccct ttaaaaggga aaaaaacaag gactttttta aaccggaaaa ccccttttt 360
ggggtttttt ttaaaaactt aaaaacggg ggttttttcc cccttaaa 408

<210> 389
<211> 462
<212> DNA
<213> Homo sapiens

<400> 389

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acaaggagct aataccccaa tatatacaga gtcagaagt tattatgaaa gacattaaca      180
tatagcaaaa caagcaatgg ccatgtggtt tcacagaaaa ttctggaatt tcatatcaag     240
ggtgatagga ggctcttttg ttttagtgag acaatttttt tttttttttt tgagacacag     300
tctcgctctg tcaccagggc tggagtgaag tgggtgcgatc tcggctcact gcaagctccg     360
cctcccaggt tcacgccatt ctctgcctc agcctcccga gtagctggga ctacaggtgc     420
ccgccaccaa gcctggctaa ttttttgtat ttttagtaga ga                          462

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<210> 390
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<212> DNA
<213> Homo sapiens

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<400> 390
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ctgtaaaggt tcagaaagca tatcctgaac acaagccctc ctgagttacg ttatttaaag     180
tgttaaatac tcaagccaac cgaaacacaa accaaagtaa agaatttaga taagaaagac     240
atgtgaaaag gaggctactg gtaagtacag aactcagtta aatgtaaata attatgaatt     300
aattgtatta tctttttatt taaaaatcta ataaattctg atttttctct ccccaacttc     360
ctgtgatata actaagaaaa aacaaagaga aactagtttc tgtaaaactg gaaactccga     420
gaattcctca gtgatatgcc aggaacagg aagaatttcc actagccaaa gttctgagga     480
agttacaggc aggaaaaaag ataagggtta ccatcttttt ttagtcaata aagctatgcc     540
cactctaggt actttcctta gaaacatgga gtcttcccag cagagaaagg aaagctag      598

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<210> 391
<211> 383
<212> DNA
<213> Homo sapiens

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<220>
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<222> (341)..(341)
<223> n is a, c, g, t or u

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<220>
<221> misc_feature
<222> (346)..(346)
<223> n is a, c, g, t or u

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<220>

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<221> misc_feature
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<400> 391
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 ttggtcttca aaaatcatgg gcgtattaac attttccaaa catgccctgc tggactagga 240
 aggtcctgtt attctttctt ttgaacttcc cagtaagttt ccttgttccc tattcctagg 300
 gtttaaagtg gcaaaggagac tttttatgag gctattaggg ncaagntttc ttccattgga 360
 aaatnaaact tttggcggga aat 383

<210> 392
 <211> 573
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (521)..(521)
 <223> n is a, c, g, t or u

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 agggcacaca gttccaacac cagaacagag aatttgggaa gataattgct ctgaaacaga 180
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 aaagcatgac agggtttgaa cagtgatctt gaa 573

<210> 393
 <211> 497
 <212> DNA
 <213> Homo sapiens

<400> 393
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agcctcttgt tctgctatca aaggaccaat aagaagcaaa ctgatattac agggcaaattg 120
 ttcccagaca gcccgacctg ctccccttag gaatgagtgt ccctggaggg ggagagcctg 180
 gaaccaaagc cccgccagga actgcttccc ctaaactgag gttctctgaa aaaaatgttc 240
 gcctggctga taaagccgcc tottaacaga gccagacac ttctgtgctt cccctgggtt 300
 gctaattgag gacactaaag ccctaagaga taccacaggt cgggggaagg ggccccaaga 360
 cctagacctc cgggtggcgac catgcccttg agaggatggg agctgaattg gagcacgaga 420
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 tcagacagac acagact 497

<210> 394
 <211> 505
 <212> DNA
 <213> Homo sapiens

<400> 394
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 ggatgctcag aaaacgtaag aagctgaagg gaaaacacat catctgtgta ctcagacaca 180
 cacactccaa cccatcacac gaacacaccc tcgcccgcgc atcagagaag aattcgcttg 240
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 actaaaaata caaaaatcag cggggcctgg tggcatgcac ctgtaatccc agctactcag 420
 gaggttgagg caggagaatc gcttgagaca gaggttgagc tgagccgaga tgccgacctg 480
 cactcctgcc tgggcaacag agcaa 505

<210> 395
 <211> 2283
 <212> DNA
 <213> Homo sapiens

<400> 395
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 aaa 2283

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 <211> 1634
 <212> DNA
 <213> Homo sapiens

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atgggggacta tagtgcaacc tattttgggta aagaaaccat ttgctaaaat ggagaaagta 1560
aatagatttt tattttaaatt acagaaacat gttaaaggcc ggacaaagga aagacaataa 1620
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<210> 397

<211> 1943

<212> DNA

<213> Homo sapiens

<400> 397

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<210> 398
<211> 594
<212> DNA
<213> Homo sapiens

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<400> 398
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gagtgcgggc ctctgagcaa gacagtgcgc ttcaacgtgc tcaaggtcac caaggctgcc 480
ggcaccaaga agcagttcca gaagtcttga ggctggacat cggcccgtc cccacaatga 540
aataaagtta ttttctcatt ccaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa 594

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<210> 399
<211> 2141
<212> DNA
<213> Homo sapiens

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<400> 399
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cctgcctggc cccgggtccc gcgccccgag accgcccgtc ctcggacgct cctgctcggc 180
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<210> 406
<211> 620
<212> DNA
<213> Homo sapiens

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<223> n is a, c, g, t or u

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<400> 406
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taaccagagc accattgcct gcttccttct tcctgaagga aggggtccac ccttcacaat      240
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<210> 407

<211> 1519

<212> DNA

<213> Homo sapiens

<400> 407

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<211> 777
<212> DNA
<213> Homo sapiens

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<210> 409
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<212> DNA
<213> Homo sapiens

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<223> n is a, c, g, t or u

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<223> n is a, c, g, t or u

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<211> 6628

<212> DNA

<213> Homo sapiens

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gcaatcagga aatgccatgt gacattcttg ataaagacga aacacacaca catttcacag      540
cacttattgt ggccacagtg gttttggcca ttgtgtgggc accacagtct cagtgcaggg      600

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632

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<211> 1273
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<213> Homo sapiens

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<400> 445

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 <211> 1542
 <212> DNA
 <213> Homo sapiens

<400> 451
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<211> 1575

<212> DNA

<213> Homo sapiens

<400> 452

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<210> 453

<211> 1932

<212> DNA

<213> Homo sapiens

<400> 453

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 <211> 261
 <212> DNA
 <213> Homo sapiens

<400> 454
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 ggaaaaacag tgtaacctac tagagctcaa gactgagtgg ccaggcagaa gatgtttttc 180
 aattgtttcc agggaagctc atgtctttca cccaggcaga ggctctacat aaaaccttct 240
 aagtgagcaa atgagccctt g 261

<210> 455
 <211> 399
 <212> DNA
 <213> Homo sapiens

<400> 455
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 gaaccaccc ggggggggtg gccaccccc cacagttcac ctaaaaccct cccaagcggg 240

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<210> 457
 <211> 258
 <212> DNA
 <213> Homo sapiens

<400> 457
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<210> 458
 <211> 309
 <212> DNA
 <213> Homo sapiens

<400> 458
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<210> 459
 <211> 4731
 <212> DNA
 <213> Homo sapiens

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<211> 174

<212> DNA

<213> Homo sapiens

<400> 460

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 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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 gcctcactac ccagcgactg ccgggttagca gaatcaagac ctacaccatc acggaaggct 180
 ccttgagagc agtaattttt attaccaaac gtggcctaaa agtctgtgct gatccacaag 240
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 gctagtagtc tctggcacc cgtccgtctc cagccagcca gctcatttca ctttacacgc 420
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 caacttgtct ctataataga attctgttta tagaataagg gagaaaataa tccagtcttc 840
 actgggttcc cattctgagg gtccactact caaaaatttg cttcactcaa tttttttcac 900
 ctctttgtgt tttatttttg tgcctatta aaggaataaa atgacacaac ttgtcccttt 960

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acgctagtta tcatgcatgt tatgctttac tgccaataag cttttaatgc tccaaatgct 1140
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<212> DNA
<213> Homo sapiens

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gtaaattagc atttactgtg gtacaaattc ttataactg acttagtcat ttgccgctta 240
gcagtttata tactgaaatg aaaacatctt gtggggaaaa gtgacttttag attatgaact 300
caattcaaat gaactctatt taaaatgggg tcctattttg gacaaaggaa attaagaatg 360
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ttaattacat cttttattat tattgtttat ttcttagaat catttctggc tttctcaaaa 480
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atctcgacta tgtagaatag cacctactgg acagaacaat ttttgatcc aaaactggca 660
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atgatcggct cttataatta attaattg 928

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<210> 464
<211> 977
<212> DNA
<213> Homo sapiens

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<400> 464
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agaaataagg gaggtctaga gcttctattc cttggccatt gtcaacggag agctggccaa 180
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 cttgatctca agggcgtaac tctggaagca cagcttgact acacgtcatt tttaccaatg 300
 attttcaggt gacctgggct aagtcattta aactgggtct ttataaaaagt aaaaggccaa 360
 catttaatta ttttgcaaag caacctaaga gctaaagatg taatttttct tgcaattgta 420
 aatcttttgt gtctcctgaa gacttccctt aaaattagct ctgagtgaaa aatcaaaaga 480
 gacaaaagac atcttcgaat ccatatttca agcctggtag aattggcttt tctagcagaa 540
 cctttccaaa agttttatat tgagattcat aacaacacca agaattgatt tgtagccaac 600
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 gaaaagcaaa atgtacttaa gaataagaat acatgggtcca ttcaacttta tgttatagat 720
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 gtcaatgacc acgttatgtg cctgacttcg aggacaccct ctctgggttg gtattttggg 840
 ggcgaaaatg ggaaccatat tattttcggg ggaccttgga aataggggct agagagagca 900
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 <211> 710
 <212> DNA
 <213> Homo sapiens

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 cctcgcggac taagagaaaa attcccgcgg gcgctctttg ggtgggcccga agaacgcccc 180
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<210> 466
 <211> 630
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> n is a, c, g, t or u

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 atttaacaat gtcaggctgc tgttccaaaa 630

<210> 467
 <211> 485
 <212> DNA
 <213> Homo sapiens

<400> 467
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 gaaactccgt ctcaaaacaa aaagaaaaag aaaggagcca tggagcccca ggtaggccag 180
 ggctgatgga acggcccttg ctctaaggcc ttgcggcgct actttctggg ctgtgacaga 240
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 acacatgcag ttaatttcta cagtagtgac cagaggaggg gcctggagtg cccagctgg 420
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 tctgt 485

<210> 468
 <211> 1748
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (41)..(41)
 <223> n is a, c, g, t or u

<400> 468
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<210> 469
<211> 2317
<212> DNA
<213> Homo sapiens

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<210> 470
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
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 <223> n is a, c, g, t or u

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 caaagcgatg agtctccagc aaaagccggg ggaacttttt cgcggcgctc gggatcctga 180
 gcgtcctggg ctccgggcgt gtatgagagc gagcgagacg cgctcagaga gagtgactgt 240
 g 241

<210> 471
 <211> 389

<212> DNA
<213> Homo sapiens

<400> 471
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ttcatttttt atcctttttt tggtatatatt tatctaaca ccttgatcca tgacaatgtg 180
aaaaaaaaag acaataagtt ttcttctatg tgacttacag caacatagca agtatgttac 240
gatattaaat attttatttt ctaacctttt aaaattaaga acttatgaat aaatgagatg 300
actctcagaa tatgaacaga aaagtctact tctgaacata aaaatgtaat cagaaacaat 360
gtttccacag aataagatgt aaaggatc 389

<210> 472
<211> 491
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (487)..(487)
<223> n is a, c, g, t or u

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caaatgaccg ccccgggcgg cccgaggcac gctctctccc cctccgcggg attagtaact 420
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gcccgngcc g 491

<210> 473
<211> 557
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (499)..(499)
<223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (554)..(554)
 <223> n is a, c, g, t or u

<400> 473
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 aatttagaaa tagcaataaa aagagtatca gtgactcata gaagetaacc ttccatttaa 300
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 gatgaacagg cagaactggc atccctcagt gccccaggc tctgagtctc tgagagagga 480
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<210> 474
 <211> 2389
 <212> DNA
 <213> Homo sapiens

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<211> 1880

<212> DNA

<213> Homo sapiens

<400> 482

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 <212> DNA
 <213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<223> n is a, c, g, t or u

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 <212> DNA
 <213> Homo sapiens

<400> 485
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<210> 486
 <211> 2811
 <212> DNA
 <213> Homo sapiens

<400> 486
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<211> 796

<212> DNA

<213> Homo sapiens

<400> 487

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<211> 1670

<212> DNA

<213> Homo sapiens

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<211> 1143
<212> DNA
<213> Homo sapiens

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<223> n is a, c, g, t or u

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 <213> Homo sapiens

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tgcgggtggc gctgctgctc ctgctcctgg tggccgccag ccggcgcgca gcaggagcgc      180
ccctggccac tgaactgcgc tgccagtgtc tgcagaccct gcaggggaatt cacctcaaga      240
acatccaaag tgtgaagggtg aagtcccccg gacccactg cgcccaaacc gaagtcatag      300
ccacactcaa gaatgggcag aaagcttgct tcaaccccg atcgcccatg gttaagaaaa      360
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agctgcagag gccacctggc ttgcgcctaa tgtgtttgag catacttagg agaagtcttc      540
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aaatgtatgt gtgtctatct tgtaactgta aagatgaatg tcagttgtta tttattgaaa      900
tgatttcaca gtgtgtgggc aacatttctc atgttgaagc tttaagaact aaaatgttct      960
aaatatccct tggcatttta tgtctttctt gtaagatact gccttgttta atgttaatta     1020
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ccagaaggaa gaattaaaaa tgaatatgtt caaggaagca gtgaccttca aggacgtggc      180
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agatgtgatg gtggagaact ttaggaacct gctgtcagtg gggcatccac cttcaaaca      300
agatgtatca cctatagaaa gaaatgagca gctttggata atgacgacag caaccgaag      360
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ttaaacttgg atttgaagtt agaagaaatg ttggaagtca tttatatatg aagaaatggt 480
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ttatggtagg aaagacatgg aataaaaaat ttagatagta tgtcagtagt tgtgttttta 660
aatgggtttc attagtgcct agcaattggg agcttggtgg accatctctt ggttttggac 720
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caggcctgct gtgcactcct gtggcatcgg ggggcggggg gcaagcatca cagtcatagg 180
gagtgtgagg cgcccagaat gggggctcca cagtcaggcc tgcaccccg ctgcaggata 240
ccagatcctg tggttcactg tgagacctcc gcctctctcg tctgccttac gctgccccct 300
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gggcctgtga gagagtgg 378

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tgccctcgag ggccagtctg tggcatgaca agaaatgcag ggggtgcacgt gttggggctg 180
ccctttggca ctcaactggg tgggtcaggg gagagcaaac accaagggtc tctggagacc 240

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ggaaccagcc agtgcagcca tttggcttct cctcaggac cagctgtcag tccccaggcc 300
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 agatctggca atggatgttc tcccagcact tcttctgggc cagggtcttt gttgtcttgc 480
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 tgaaagtga ggcataccta ccaacaggca aacaattttt ggtaaccaa aatgtgccgt 360
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 atgatgggtga tggcggatgg gtagatacat atcacaacac aggtattaca ggaataacgg 480
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